

Conductive Adhesive Mounting Gasket, P/N: 12345G-3M-1GC (Item 548)

for 1G, 1.9G, 1.5G, S1, S1.5, and S1.9 Antenna Series

Stainless Steel: DFARS 252-225-7014/316 Passivated; Chem. Film (MIL-C-5541F, Class 1A); Anodizing (MIL-A-8625F, Type II Class II)

ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . http://www.antcom.com

3M 9713
Electrical Conductive Tape

Electrical Properties

Contact Resistance:

Substrate Tested (Foil/Rigid Plate)			
Aluminum/ Aluminum	Aluminum/ Stainless Steel	Copper/ Stainless Steel	Copper/ Copper
< 2.5 Ω	< 2.0 Ω	< 1.0 Ω	< 0.5 Ω

Based upon four wire (Kelvin probe) resistance measurements made with crossed pieces of Foil/9713/Rigid plate construction using a 1.0 in x 1.0 in square piece of 9713. Room temperature aged for 1 year. The rigid metal surface was prepared with a Scotch-Brite™ pad to roughen the surface and cleaned with isopropyl alcohol.

Outgassing:
(ASTM E-595)

Total Mass Loss (TML): 1.60%
Collected Volatile Condensed Materials (CVCM): 0.03%
Water Vapor Recovered (WVR): 0.36%

Minimum Overlap Length: 1/4 in. (6 mm)
Minimum Overlap Width: 1/8 inch (3 mm)

Adhesion Properties

Substrate	Adhesion in oz/in (g/cm)			
	15 min at 72°F (22°C)	1 hr at 72°F (22°C)	24 hr at 72°F (22°C)	24 hr at 158°F (70°C)
Stainless Steel	> 30 (335)	> 45 (502)	> 50 (558)	> 55 (613)
Aluminum	> 20 (223)	> 35 (390)	> 40 (446)	> 55 (613)
Copper	> 20 (223)	> 40 (446)	> 45 (502)	> 60 (669)

Based upon a 90 degree peel sample, following ASTM D3330 test method. Aluminum foil (2 mil thick) was used as the flexible backing to the tape 9713. The substrates listed are all rigid metal plates. The 158°F (70°C) aged peel samples are indicative of the typical long term adhesion build expected at room temperature.

Operative Temperature Range and Shelf Life

Short Term Exposure (minutes, hours)	Long Term (days, weeks)
250°F (121°C)	158°F (70°C)

Shelf Life of Tape in Roll Form: 24 months from date of manufacture when stored in original cartons at 70°F (21°C) and 50% relative humidity.

1.918 SQ.

4xR.700

Ø1.000

REVISIONS			
ZONE	REV	DESCRIPTION	DATE
		RELEASED TO PROD. PER DCN #7	00-12-19

P/N: 12345G-3M-1GC
for 1G, 1.9G, S1,
and S1.9 Antenna Series

Material: 3M Conductive Tape, 9713, Thickness=0.003"

MATERIAL		PARTS LIST	
<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± 1/64 ± .005 ± .010 ± .005 ± .010</small>		ANTCOM CORP. TORRANCE CALIFORNIA	
		1G/1.9G Conductive Adhesive Gasket	
<small>TOLERANCE DIM PER ANSI Y14.5 REMOVE ALL BURRS BREAK EXTERNAL EDGES TO .015 FILED & .005 TO .010 SCREW THREADS PER MIL-P-2879 DITS ON A COMMON 1/8" DIA MACHINED SURFACES</small>	<small>CHECKED</small> <small>ENGINEER</small> <small>APPROVED</small> S. Huynh 00-12-19 <small>DCN FILE NO</small>	<small>REV</small> D 3CVE1 <small>QTY</small> 12345G-3M-1GC <small>SCALE</small> 1/1 <small>SHEET</small> 1 OF 1	<small>DO NOT SCALE DRAWING</small>